US-PAT-NO: 5640677

DOCUMENT-IDENTIFIER: US 5640677 A

TITLE: Best server selection in layered
cellular radio system

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Brief Summary Text - BSTX (9):
   When handoff is effected between adjacent cells in a
single layer cellular
radio architecture, the principle criterion used is the
quality of the signal
received from the mobile station by the respective base
stations capable of
providing radio service. That is, the quality of the signal
received from the
mobile station by the base station currently serving the
mobile is compared
with the quality of signal received by a base station serving
an adjacent cell
and when the quality of signal in the latter exceeds the
former, the mobile is
handed off to the base station serving the adjacent cell. In
addition, a
signal quality increment, known as an offset or hysteresis,
is also applied to
the signal quality difference value so that unless the signal
quality in the
adjacent base station is at least "x" amount greater than the
presently serving
base station, handoff does not occur. This prevents
oscillating handoffs due
to signal quality perturbations in which the mobile is
repeatedly handed back
and forth between two adjacent base stations.

Detailed Description Text - DETX (6):
   Each of the cells C1-C10 is allocated a plurality of voice
or speech
channels and at least one access or control channel, such as
a forward control

channel (FOCC). The control channel is used to control or supervise the
operation of mobile stations by means of information transmitted to and
received from those units. Such information may include incoming call signals,
outgoing call signals, page signals, page response signals, location
registration signals, voice channel assignments, and maintenance instructions
as the mobile station travels out of the radio coverage of one cell and into
the radio coverage of another cell. The control or voice channels may operate
either in an analog or digital mode or a combination thereof.

L Number	Hits	Search Text	DB	Time stamp
1	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or signals)) and cdma and (register or registers or registration or registering or registered)).clm.	USPAT; EPO; JPO; DERWENT	2004/01/16 16:35
2	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or signals)) and cdma and (register or registers or registration or registering or registered)).clms.	USPAT; EPO; JPO; DERWENT	2004/01/16 15:39
3	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or signals)) and cdma and (register or registers or registration or registering or registered)).ab.	USPAT; EPO; JPO; DERWENT	2004/01/16 15:42
4	12	((retry or retries or retrying or retried) and (pilot adj2 (signal or signals)) and cdma and (register or registers or registration or registering or registered))	USPAT; EPO; JPO; DERWENT	2004/01/16 15:39
5	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or signals)) and (register or registers or registration or registering or registered)).ab.	USPAT; EPO; JPO; DERWENT	2004/01/16 15:42
6	1	((retry or retries or retrying or retried) and (pilot) and (register or registers or registration or registering or registered)).clm.	USPAT; EPO; JPO; DERWENT	2004/01/16 15:43
7	0	((retry or retries or retrying or retried) and (pilot) and (register or registers or registration or registering or registered)).ab.	USPAT; EPO; JPO; DERWENT	2004/01/16 15:43
8	148	((retry or retries or retrying or retried) and (pilot) and (register or registers or registration or registering or registered))	USPAT; EPO; JPO; DERWENT	2004/01/16 16:23
9	21	((retry or retries or retrying or retried) and (pilot) and (register or registers or registration or registering or registered)) and handoff	USPAT; EPO; JPO; DERWENT	2004/01/16 16:24
10	12	((pilot adj2 (signal or signals)) and cdma and (register or registers or registration or registering or registered)).clm.	USPAT; EPO; JPO; DERWENT	2004/01/16 16:35